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TITLE: COATING LIQUID FOR FORMING TRANSPARENT ELECTROCONDUCTIVE FILM, SUBSTRATE
WITH TRANSPARENT ELECTROCONDUCTIVE FILM AND DISPLAY DEVICE

PUBN-DATE: July 10, 2002

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a coating liquid for forming a transparent electroconductive film capable of forming a transparent electroconductive film having a low surface resistance and excellent in antistaticity, transparency, antireflective properties and electromagnetic shielding properties as well as in reliability.

SOLUTION: The coating liquid for forming a transparent electroconductive film comprises an electroconductive particulate mixture of electroconductive particulates (A) having an average particle size (PA) within the range of 2-200 nm and electroconductive particulates (B) having an average particle size (PB) within the range of 1-20 nm, and a polar solvent, where PA/PB, the ratio of the average particle size of the electroconductive particulates (A) to that of the electroconductive particulates (B), is within the range of 0.01-0.5. The electroconductive particulates (A) and (B) are each composed of (i) at least one element metal selected from the group consisting of Au, Ag, Pd, Cu, Ni, Ru, Rh, Sn, In, Sb, Fe, Pt, Ti, Cr, Co, Al, Zn, Ta, Pb, Os and Ir, (ii) an oxide or a hydroxide of at least one element selected from the group consisting of Sn, In, Sb, Ti and Ru, or (iii) a different type element-doped oxide comprising an oxide of at least one element, selected from the group consisting of Sn, In and Sb, doped with an element other than the element constituting the oxide.

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